MOTLIK, K.; KUCHEL, O.; KANDRAC, M.S.; GREGOROVA, I.; HORKY, K.

Hyperadrenocorticism accompanying extraadrenal and extrahypophyseal neoplasms. Endokr. Pol. 16 no.2:113-131 Mr-Ap'65.

1. Faculty of General Medicine, Charles University, Praha (Prague); IInd Institute of Morbid Anatomy (Director: Prof. dr. V. Jedlicka, DSc.); IIIrd Clinic of Internal Medicine and the Laboratory for Endocrinology and Metabolism (Director: Academician J. Charvat).

HORKY, K.; KUCHEL, O.; PAZOUREK, M.

Influences modifying pressure reactions to exogenous angiotensin. Sborn. lek. 67 no.10:298-307 O '65.

1. III. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta akademik J. Charvat).

[illegible]

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Hydrometeorological Institute (Hydrometeorologicky ustav), Bratislava

Source: Prague, Studia Gephysica and Geodetica, Vol 5, No 4, 1961, pp 370-372.

Data: "Anomalies in the Elements of the Radiation Balance During the Solar Eclipse, 15 February 1961." /In German/

KUCHEL, S.

Circumglobal radiation in Kosice. Meteor zpravy 16 no.1:13-18 F '63.

KUCHEL, S.

Circumglobal radiation in Hurbanovo. Meteor zpravy 16 no.2:39-41 Ap '63.

KUCHEL, S

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: [not given]

Source: Prague, Meteorologicke Zpravy, Vol XIV, No 1-2, 30 April 1961, pp 33-35

Data: "Verification of the Actinometric Material of the Czechoslovak Socialist Republic for the IGY/IGI Period."

KUCHEL, Stefan

Total radiation at the Lomnicky Stit Mountain. Studia geophys 7 no.1:78-83 '63.

1. Hydrometeorologische Anstalt, Bratislava - Koliba, Jeseniova 43.

KUCHEL, S.

Global radiation in Czechoslovakia. Meteor zpravy 16 no.5: 143-146 O'63.

1. Pobocka Hydrometeorologickeho ustavu, Bratislava.

KUCHENEV, N.

United manual for wage grade and qualifications for workers performing more than one operation. Sots.trud 4 no.5:64-68 My '59. (MIRA 12:8)
(Wages--Tables and ready-reckoners)

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchika-mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p. (MIRA 14:8)

(Industrial management) (Machine tools)

KUCHENEVA, G.G.

Propagation of garden tree and shrub forms by seeds. Biul. Glav. bot. sada no.41:101-106 '61. (MIRA 14:11)

1. Kaliningradskiy botanicheskiy sad.
(Trees) (Shrubs) (Seedlings)

ANTIPOV, V.G. [Antsipau, V.H.]; KUCHENEVA, G.G. [Kuchaniova, H.H.]

Decorative forms of broad-leaved varieties in Kaliningrad Province. Vestsi AN BSSR. Ser. biial. nav. no.1:33-37 '65.
(MIRA 18:5)

[illegible], [illegible], [illegible]AYA, [illegible] I., TAIREVA, YU. G., [illegible], V. V.,
ANDREYEVA, G. V., FISHER, [illegible], KLYUCHAREV, G. G., [illegible], [illegible], [illegible], T. I.,
KERASHEVA, [illegible], IGNATOVICH, Z. A., RA[illegible], [illegible]

"Modern problems of sanitary bacteriology in the solution of problems of communal hygiene."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

KUCHENKO, S. M.

Mathematical Reviews
May 1954
Mechanics

②

Kucenko, S. M. **Application of the method of best approximation of Cebyšev functions to the calculation of counterweights of locomotive machines.** Akad. Nauk SSSR. Trudy Sem. Teorii Mašin i Mehanizmov 10, no. 41, 5–15 (1951). (Russian)

KUCHENKO, V.S.

Unusual case of trauma of the cranial base with a lesion of the external, the middle and the internal ear. Zhur. ush., nos. i gorl. bol. 23 no.1:76 Ja-F '63. (MIRA 17:2)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - prof. V.P. Yaroslavskiy [deceased]) Vinnitskogo meditsinskogo instituta.

137-58-6-11468

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 31 (USSR)

AUTHORS: Burov, A.I., Kuchenkov, V.M.

TITLE: The ES-1000 and EX-1001 Electronic Monitors (Elektronnyye signalizatory ES-1000 i ES-1001)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 15, p 2

ABSTRACT: A communication is presented on electronic monitors, newly developed by the Tsvetmetavtomatika design office, to signal the presence or absence of free-flowing materials, moist finely-divided and liquid materials in bins, spouts, feeders, etc. Brief technical descriptions of two variants of the electronic monitor are presented.

M.L.

1. Electronic equipment--Development 2. Electronic equipment --Applications

Card 1/1

DAVIDENKO, R.A.; VOLOBAYEV, M.A.; KUCHENKOV, V.M.

Automatic control of the wood drying process. Der. prom. 8 no.8:17-18 Ag '59. (MIRA 12:12)
(Woodworking machinery) (Wood--Drying)

BEREZNYAK, P.A.; KUCHEPATOV, A.G., otvetstvennyy redaktor; YEMEL'YANOVA,
N.I., redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor

["Korelo-Finnish S.S.R." pavilion; a buidebook] Pavil'on "Korelo-Finskaia SSR"; putevoditel'. Moskva, Gos. izd-vo selkhoz. lit-ry. 1956. 18 p. (MIRA 9:8)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka. 1954-
2. Direktor pavil'ona "Karelo-Finskaya SSR" (for Bereznyak)
(Karelia--Natural resources)
(Moscow--Agricultural exhibitions)

KUCHENKOVA, M.A.; YULDASHEV, P.Kh.; YUNUSOV, S.Yu.

Vinervine, a new alkaloid from the above-ground part of Vinca erecta RGL et Schmalh. Izv.AN SSSR.Ser.khim. no.12:2152-2155 '65. (MIRA 18:12)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. Submitted July 29, 1963.

L 35319-66 EWT(m) RM

~~ACC NR:~~ AP6026897 SOURCE CODE: UR/0062/65/000/012/2152/2155

44

B

AUTHOR: Kuchenkova, M. A.; Yuldashev, P. Kh.; Yunusov, S. Yu.

ORG: Institute of the Chemistry of Vegetable Matter, AN UzSSR (Institut Khimii rastitel'nykh veshchestv AN UzSSR)

TITLE: Vinervine -- a new alkaloid from the above ground portion of Vinca erecta Rgl. et Schmalh

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2152-2155

TOPIC TAGS: plant chemistry, alkaloid, phenol, molecular structure, melting point

ABSTRACT: Specimens of the plant Vinca erecta, collected in Southern Uzbekistan, were used for cold ether extraction of alkaloids, which were then divided into phenolic and nonphenolic fractions. This resulted in the subsequent isolation of a new phenol base, vinervine ($C_{20}H_{22}O_3N_2$) (m.p. 154-155°C) which is unstable to light or when in solution, and contains one OCH_3 group and two active H atoms one of which is a phenol. This new base caused a pronounced levorotation of polarized light, which points to the presence of a chromophore of alpha-methyleneindoline connected to a carbomethoxyl group. Of the three oxygens present in vinervine, one is a phenol hydroxyl and two, are esters. Heating vinervine in ansealed and evacuated ampoule with 15% HCl for 2.5 hr at 100°C led to the formation of a crystalline indolenine base with a melting point of 185-187°C, which proved to be identical to the indolenine base obtained from vincanidine (another base present in V. erecta). The investigation of the structural position of the phenol hydroxyl is continuing. Orig. art. has: 1 figure. [JPRS: 36,455]

SUB CODE: 07 / SUBM DATE: 29Jul63 / ORIG REF: 002 / OTH REF: 002

Card 1/1 UDC: 547.94

0976 2655

[illegible], F.F.; [illegible]; KUCHEMKOVA, M.A.; [illegible]

[illegible] of [illegible] anisidine and vinylene. Zh. [illegible] 1:34-42
'65. (MIRA 18:4)

1. [illegible] AN [illegible].

ACCESSION NR: AP4045018 S/0191/64/000/009/0018/0020

AUTHOR: Vinogradova, L. M., Korolev, A. Ya., Davy*dov, P. V., Kuchenkova, R. V.

TITLE: Selection and application of organosilicon liquids for decreasing the adhesion of plastics to solid surfaces

SOURCE: Plasticheskiye massy*, no. 9, 1964, 18-20

TOPIC TAGS: organosilicon, molding, antiadhesion film, polyethylhydrosiloxane, polymethylhydrosiloxane, plastic adhesion, polydimethylsiloxane

ABSTRACT: The effect of the nature and composition of organosilicon solutions and of the molding conditions of thin films on their effectiveness in decreasing adhesion of polymers to hard surfaces was studied. Liquid polymethyl- and polyethyl-hydrosiloxane and polydimethylsiloxane with a varying content of hydroxyl groups were investigated. The effect on the adhesive properties of treatment of a silicate glass surface with polymethylhydrosiloxane solutions and the effect of the treatment of a steel surface with a 5% polymethylhydrosiloxane solution in benzine were investigated and discussed on the basis of tabulated data. The experimental data for both tests agreed substantially. It was found that adhesion to polar compounds can be completely eliminated by surface treatment with polyethylhydrosiloxane solutions in benzine or with aqueous emulsions of this liquid.

Card 1/3

ACCESSION NR: AP 4045018

During hardening of films from polydimethylsiloxane solutions, which contain 2.7% hydroxyl groups in the macromolecule, on the surface of steel, either at 200C for two hours or even in the presence of a catalyst (tin diethyldicaprylate) at room temperature for 48 hours, the resistance to peeling decreased from 412 kgs/cm^2 (control sample) to 16-20 kgs/cm^2 (modified sample). Polydimethylsiloxane without hydroxyl groups affects adhesion to the steel only slightly, even at a hardening temperature of 200C. Thin layers of the investigated organosilicon solutions with active functional groups are retained strongly on steel or glass surfaces. They are not removed even by prolonged extraction of the sample with boiling (80C) benzine, and retain their anti-adhesion properties at the level found before extraction. These anti-adhesive agents increase the molding performance and can also be used advantageously for molding heat-stable rubbers. The organosilicon compounds, by forming very thin films on the walls of the molds, facilitate the removal of the plastic moldings from the mold, ensure a smooth surface and protect the metal molds against corrosion. In addition to thermal stability, their chemical inertness toward the material of the molds is another advantage. "The tests on PMS-31 (polymethylhydrosiloxane) were carried out with the cooperation of A. A. Moiseyev, V.V. Pavlov, V.P., Terebenin and V.P. Frolov". Orig. art. has: 3 tables.

ASSOCIATION: None

Card 2/3

ACCESSION NR: AP4046018

SUBMITTED: 00	ENCL: 00	SUB CODE: MT
NO REF SOV: 009	OTHER: 000	

Card 3/3

KUCHEPATOVA, Ye.G.; ROMANOV, I.I.; TARASOV, Ye.F.; SHESTOV, A.I.;
MAKAROV, N.A., otvetstvennyy redaktor; BOYARSKAYA, L., redaktor;
PAVLOVA, M., tekhnicheskiy redaktor

[The "Urals" pavilion (Sverdlovsk and Molotov Provinces, Udmurt A.S.S.R., Chelyabinsk and Kurgan provinces); a guidebook] Pavil'on "Ural" (Sverdlovskaia i Molotovskaia oblasti, Udmurtskaia ASSR, Cheliabinskaia i Kurganskaia oblasti); putevoditel'. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 27 p. (MIRA 9:8)

1. Moscow. Vsesoyuznaia sel'skokhozyaystvennaya vystavka, 1954-
(Ural Mountain region--Agriculture)
(Moscow--Agricultural exhibitions)

[illegible] /EPR/EWP(j)/T/EWP(t)/EWP(b) Pa-4/Pc-4/Pr-4/Ps-4 [illegible]

[illegible] Ivanova, N. L.; Kuchar, A. [illegible]

[illegible] of bis-(trimethylsilyl)-dimethylhy[illegible]

[illegible]skiye massy, no. 7, 1964, 26-28

[illegible] amine, hydrazine, organosilicon compound

[illegible] was shown that in the exchange between silylhydrazines and [illegible]

[illegible] methylhydraz[illegible]

KHITRIK, S.I.; GASIK, M.I.; LEYBOVICH, R.Ye.; LAGUNOV, Yu.V.; KUCHER, A.G.

Specific heat of carbonizing an electrode mixture. Stal'
25 no.2:135-136 F '65. (MIRA 18:3)

[illegible] and [illegible], A. M.

Modernizatsiia Tokarnykh i Frezernykh Stankov Dlia Skorostnogo Rezaniia Metallov (Modernization of Lathes and Milling Machines for High Speed Machine Tooling), 258 p., Moscow and Leningrad, 1949.

KUCHER, A. M.

36158 Opyt modernizatsii stankov dlya skorostnogo rezaniya metallov. V sb: Spetsializir. stanki v mashinostroyenii. M-L., 1949. S. 177-96.

SO: Letopis' Zhrunal'nykh Statey, No. 49, 1949

KUCHER, A.M.

KUCHER, I.M., kandidat tekhnicheskikh nauk; KUCHER, A.M., kandidat tekhnicheskikh nauk; ANSEROV, M.A., kandidat tekhnicheskikh nauk, dotsent, redaktor.

[High-speed lathes] Tokarnye stanki dlia skorostnoi obrabotki. Moskva, Gos. nauchno-tekhnicheskoe izdatel'stvo mashinostroitel'noi i sudostroitel'noi lit-ry, 1953. 51 p. (Bibliotechka tokaria-novatora, no.3) (MLRA 7:3)

(Lathes)

KUCHER, A.M.

KUCHER, I.M., kandidat tekhnicheskikh nauk; KUCHER, A.M., kandidat tekhnicheskikh nauk; ANSEROV, M.A., kandidat tekhnicheskikh nauk, dotsent, redaktor.

[Modernization and automatization of lathes] Modernizatsiia i avtomatizatsiia tokarnykh stankov. Pod obshchei radaktsiei M.A.Anserova. Gos.nauchno-tekhnicheskoe izd-vo mashinostroitel'noi i sudostroitel'noi lit-ry, Moskva, 1953. 73 p. (Bibliotechka tokaria-novatora, no.4)

(MLRA 7:3)

(Lathes)

KUCHER, I.M., kandidat tekhnicheskikh nauk; KUCHER, A.M., kandidat tekhnicheskikh nauk.

[Machine-tool modernization and new Russian machine tools for high-speed metal cutting] Modernizatsiia stankov i novye otechestvennye stanki dlia skorostnogo rezaniia metallov. Leningrad, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry [Leningradskoe otd-nie] 1953. 301 p. (MLRA 6:12)
(Milling machines) (Metal cutting)

ANSEROV, Mikhail Alekseyevich; GERST, Vadim Mikhaylovich; KUCHER, A.M., kandidat tekhnicheskikh nauk, redaktor; SIMONOVSKIY, N.Z., redaktor izdatel'stva; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Attachments for metal-cutting apparatus; a survey of foreign techniques] Prisposobleniia dlia metallorezhushchikh stankov; obzor zarubezhnoi tekhniki. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 185 p. (MIRA 10:1)

(Machine tools)

KUCHER, A M

25(2,7);28(1) PHASE I BOOK EXPLOITATION SOV/3206

Kucher, Iosif Mikhaylovich, and Aleksandr Mikhaylovich Kucher

Tokarnyye stanki, ikh modernizatsiya i avtomatizatsiya (Lathes, Their Modernization and Automation) 2nd ed., rev. and enl. Moscow, Mashgiz, 1957. 138 p. (Series: Bibliotechka tokarya-novatora, vyp. 3) 25,000 copies printed.

General Ed.: M. A. Anserov, Candidate of Technical Sciences, Docent; Reviewer: N. I. Shavlyuga, Candidate of Technical Sciences, Docent; Ed.: I. G. Mansyrev, Engineer; Chief Ed. (Leningrad Division, Mashgiz): S. A. Bol'shakov, Engineer; Ed. of Publishing House: M. A. Chfas; Tech. Ed.: R. G. Pol'skaya.

PURPOSE: This book is intended for skilled machinists. It may also be useful to students in technical and trade schools.

COVERAGE: The book contains detailed descriptions of several Soviet lathe designs. Problems in modernization and automation are discussed,

Card 1/3

Lathes, Their Modernization (Cont.) SOV/3206

including methods of increasing the power and speed of lathes, means of reducing setup time, means of expanding the applicability of lathes, and the use of hydraulic control for copying-tool carriages. No personalities are mentioned. There are 8 references: 7 Soviet, and 1 German.

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  4. 1A62 screw machine 38
  5. 1K62 screw machine 59

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Lathes, Their Modernization (Cont.) SOV/3206

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12. Automation of a lathe for machining stepped surfaces 123
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15. Other trends in the modernization of lathes 135

AVAILABLE: Library of Congress (TJ1218.B5)

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VK/mmh
4-8-60

KUCHER, A.M

25(5,7) PHASE I BOOK EXPLOITATION SOV/1336

Kucher, Iosif Mikhaylovich, and Aleksandr Mikhaylovich Kucher, Candidates of Technical Sciences

Modernizatsiya i avtomatizatsiya stankov (Modernization and Automation of Machine Tools) Moscow, Mashgiz, 1958. 372 p. 12,000 copies printed.

Reviewer: Barskiy, M.E., Engineer; Ed.: Blyumberg, V.A., Candidate of Technical Sciences; Ed. of Publishing House: Leykina, T.L.; Technical Ed.: Pol'skaya, R.G.; Managing Ed. for Literature on Machine Building Technology (Leningrad Division, Mashgiz): Naumov, Ye.P., Engineer.

PURPOSE: This book is intended for design and mechanical engineers. It may also be useful to students attending tekhnikums and institutions of higher learning.

COVERAGE: This book reviews basic trends in the modernization and automatization of machine tools. It describes the following: methods of increasing power, speed, and precision; reduction of support time; automatization; changing technological capabilities of machine tools, etc. The monograph presents the basic calculations necessary to accomplish modernization and automatization

Card ~~1/14~~

programs and includes design drawings illustrating actual cases. Emphasis is placed on the problem of automatizing the available stock of machine tools, i.e., the automatization of machine tools under conditions of large-lot and mass production and automatization of hydraulic copying attachments. Problems of program control of machine tools are also discussed. Chapters II, III, V, and VIII, and the subchapter titled "Determining the optimum limits for increasing speed and power on the basis of gear operating conditions" (Ch. I), were written by I.M. Kucher; the remaining chapters were written jointly by I.M. Kucher and A.M. Kucher. There are 99 references, all Soviet.

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KUCHER, A.M.

BARSUKOV, A.A., inzh., laureat Leninskoy premii; BORISOV, Yu.S., inzh.; VAKS, D.I., inzh.; VLADZIYEVSKIY, A.P., doktor tekhn. nauk; prof., laureat Stalinskoy premii; GINZBURG, Z.M., inzh.; GLEYZER, V.Ye., inzh.; ZOBIN, V.S., inzh.; KAZAK, M.I., dots.; KAMINSKAYA, V.V., kand. tekhn. nauk; KEDRINSKIY, V.N., inzh., laureat Leninskoy premii; KUCHER, A.M., kand. tekhn. nauk; KUCHER, I.M., kand. tekhn. nauk; LEVINA, Z.M., inzh.; LUK'YANOV, T.P., inzh.; MOROZOVA, Ye.M., inzh.; NOSKIN, P.A., kand. tekhn. nauk, dots.; NIBERG, N.Ya., kand. tekhn. nauk; OSTROUMOV, G.A., inzh.; PLOTKIN, I.B., inzh.; SPIVAK, E.D., kand. tekhn. nauk; SUM-SHIK, M.R., inzh.; SHASHKIN, P.I., inzh.; SHIFRIN, S.M., inzh.; YAKOBSON, M.O., doktor tekhn. nauk, prof.; GLINER, B.M., inzh., red.; SOKOLOVA, T.F., tekhn. red.

[Handbook for mechanics of machinery plants in tow volumes] Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. Vol.1. [Organization and design preparation for repair work] Organizatsiia i konstruktorskaia podgotovka remontnykh rabot. Otv. red. toma R.A. Noskin. 1958. 767 p. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. (MIRA 11:8)
(Machinery—Maintenance and repair)

KUCHER, Aleksandr Mikhaylovich; KIVATITSKIY, Mikhail Moiseyevich; SHAVLYUGA, N.I., kand.tekhn.nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Machine tools; brief description of kinematic systems. Supplement to instructional wall sheets. Series 1: Lathes] Metallorezhushchie stanki; kratkoe opisanie kinematicheskikh skhem. Prilozhenie k plakatam. Seriia 1: Tokarnye stanki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 38 p. (MIRA 13:11)

(Lathes)

KUCHER, Aleksandr Mikhaylovich; KIVATITSKIY, Mikhail Moiseyevich; POKROVSKIY, Antoniy Aleksandrovich; SHAVLYUGA, N.I., kand. tekhn.nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Metal-cutting machine tools; brief descriptions of kinematic systems. Supplement to posters Set No.3: Planing, broaching, grinding, and gear-cutting machines] Metallorezhushchie stanki; kratkoe opisanie kinematicheskikh skhem. Prilozhenie k plakatam Seriia III: Strogal'nye, spotiazhnye, shlifoval'nye i zuboobrabatyvaiushchie stanki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroi. lit-ry, 1959. 46 p. [___Set of posters: "Kinematic systems of metal-cutting machine tools."] ___ Seriia plakatov: "Kinematicheskie skhemy metallorezhushchikh stankov." 13 diagr. (MIRA 13:5)

(Machine tools)

KUCHER, A.M

PHASE I BOOK EXPLOITATION SOV/4672

Ispol'zovaniye rezervov mashinostroitel'nogo proizvodstva; iz opyta peredovykh zavodov (Utilization of Reserves in the Machine Building Industry; Practices of Leading Plants) [Leningrad] Lenizdat, 1959. 258 p. 3,000 copies printed.

General Ed.: A.M. Kucher, Candidate of Technical Sciences; Ed.: M.S. Chervova. Tech. Ed.: I.M. Tikhonova.

PURPOSE: This collection of articles is intended for workmen and technical personnel of the machine-building industry.

COVERAGE: The book examines principal trends in the utilization of unused production capacity of machine building plants and indicates ways to realize these reserves. On the basis of examples drawn from the practice of the leading plants of the Lensovnarkhoz, the authors show how to utilize this unused capacity by applying the following measures: improvement of the processability of constructions; bringing the shapes and sizes of blanks closer to the shapes and sizes of finished parts; replacement of mechanical machining with cold stamping; improvement of the efficiency of existing technological processes and introduction of new ones; and a comprehensive mechanization and automation of the equipment. The problem of utilizing unused capacity in the construction of heavy machinery is dealt with separately. No personalities are mentioned. There are no references.

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Utilization of Reserves (Cont.) SOV/4672

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~~Card 2/3~~

KUCHER, A M.

PHASE I BOOK EXPLOITATION SOV/4590

Kropivnitskiy, Nikolay Nikolayevich, Aleksandr Mikhaylovich Kucher, Raisa Viktorovna Pugacheva, and Petr Nikolayevich Shornikov

Tekhnologiya metallov (Metals Technology) Moscow, Mashgiz, 1960. 499 p. Errata slip inserted. 40,000 copies printed.

Reviewers: N. A. Malyshev, Engineer, and K. P. Surin, Engineer; Ed.: V. A. Blyumberg, Candidate of Technical Sciences; Eds. of Publishing House: A. I. Varkovetskaya, and M. A. Chfas; Tech. Ed.: A. I. Kontorovich; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This textbook is intended for engineering trade school students.

COVERAGE: The textbook presents the material covered in the course on metals technology as established in the engineering trade educational program and approved by the Gosudarstvennyy Komitet Soveta Ministrov SSSR po professional'no-tekhnicheskomu obrazovaniyu (State Committee of the Council of Ministers USSR for trade and technical education). The fundamentals of physical metallurgy are analyzed.

Card ~~1/12~~

Casting, pressworking, soldering, brazing, welding, cutting, bench working and electrical machining of metals are discussed. Concise information on nonmetallic materials, including plastics, is also given. The text describes various metal-cutting machine tools. No personalities are mentioned. There are no references.

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SOV/130-60-1-4/22

18.3200

AUTHORS: Karmazin, V. I., Gubin, G. V., Tsybenko, A. V., Kucher, A. M.

TITLE: Blast Furnace Production. New Technology of Kerch' Ore Preparation for Smelting

PERIODICAL: Metallurg, 1960, Nr 1, pp 7-10 (USSR)

ABSTRACT: The authors emphasize the need for drastically increasing the use of low-cost Kerch' ore (composition: 32-49% Fe, 0.35-3.5% Mn, 0.1% As, and 25-30% limonite). Previous concentration processes have not proved rational. The Scientific Research Institute for Mechanical Concentration of Minerals of Ferrous Metallurgy (Mekhanobrchermet) has developed a process which involves roasting by natural gas. Contrary to earlier methods, the gangue (25-30% Fe) is refired at 1,100-1,200° C to dissociate iron aluminosilicates and separate metallic iron. Magnetic roasting at 700-800° C and subsequent magnetic separation failed to lower the Fe content in the gangue.

Card 1/3

Blast Furnace Production. New Technology of Kerch' Ore Preparation for Smelting

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However, for lean ores magnetic separation is more effective, increasing Fe content in the concentrate by 6-8%. The removal of As was tested, and results showed that gaseous reducing agent in a "boiling" layer of basic ore is more effective than a solid reducing agent in a "nonboiling" layer. In another test, 78% As was removed by blowing steam through heated ore (42.7% Fe, 0.13% As) at 1,000° C. Methods of direct ore reduction were tested in a laboratory rotary furnace comprising a metal housing with a 200-mm-diam stainless steel tube sealed at one end by welding. While heating the working area, the combustion products did not penetrate into the reduction zone, allowing the maintenance of a high carbon monoxide content (to 80%). The 5-kg charge contained ore, dolomite, and coke breeze. Reduction occurred at 1,150° C. After cooling, the reduced ore was crushed and subjected to centrifugal electromagnetic separation. A concentrate with 90% Fe and gangue with 5% Fe was produced. The authors

Card 2/3

Blast Furnace Production. New Technology of Kerch' Ore Preparation for Smelting

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suggest verifying the process under industrial conditions as follows: Crushed ore is subjected to magnetized roasting at 700-800° C in a furnace with a "boiling" layer where the As content is lowered and part of the ore magnetized. Roasted hot ore is subjected to dry magnetic enrichment; oölites with 57% Fe are separated from intermediate products with about 43% Fe. The intermediate products and dust are directly reduced in an alternating coal-flux layer at 1,100-1,200° C. Then the material is cooled and excess solid reducing agent separated to be reused in the charge. The recovered ore is crushed and separated. A rich concentrate with 75-90% Fe and gangue with 5-10% Fe is produced. The former is compacted and is suitable for charge in blast or steelmelting furnaces. There is 1 figure; and 3 tables.

ASSOCIATION: Scientific Research Institute for Mechanical Concentration of Minerals of Ferrous Metallurgy (Mekhanobrchermet)

Card 3/3

GUBIN, G.V. (Krivoy Rog); KUCHER, A.M. (Krivoy Rog); NEVOYSA, G.G. (Krivoy Rog)

Thermal methods of treating Kerch ores for magnetic separation.
Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.2:3-13 Mr-Ap '61.
(MIRA 14:4)

(Kerch Peninsula—Iron ores)
(Fluidization)
(Magnetic separation of ores)

GUBIN, Georgiy Viktorovich; KUCHER, Aleksandr Mikhaylovich; BYKOV, Gennadiy Vasil'yevich; IZMALKOV, Aleksandr Zakharovich; YARKHO, Ye.N., otv. red.; KACHALKINA, Z.I., red. izd-va; SABITOV, A., tekhn. red.

[Roaster of ores]Obzhigal'shchik rud. Moskva, Gosgortekhizdat, 1962. 68 p. (MIRA 15:10)
(Ore dressing)

KROPIVNITSKIY, Nikolay Nikolayevich; KUCHER, Aleksandr Mikhaylovich; PUGACHEVA, Raisa Viktorovna; SHORNIKOV, Petr Nikolayevich; MALYSHEV, N.A., inzh., retsenzent; SURIN, K.P., inzh., retsenzent; BLYUMBERG, V.A., kand. tekhn. nauk, red.; VORKOVETSKAYA, A.I., red. izd-va; CHFAS, M.A., red. izd-va; KONTOROVICH, A.I., tekhn. red.

[Technology of metals]Tekhnologiia metallov. [By] N.N.Kropivnitskii i dr. Moskva, Mashgiz, 1962. 499 p.
(MIRA 15:9)

(Metals) (Metalwork)

KUCHER, Aleksandr Mikhaylovich, kand. tekhn. nauk; KIVATITSKIY, Mikhail Moiseyevich; POKROVSKIY, Antoniy Aleksandrovich; FEDOTENOK, A.A., doktor tekhn. nauk, retsenzent; TSYPKIN, M.Ye., inzh., retsenzent; SHAVLYUGA, N.I., kand. tekhn. nauk, red.; VARKOVETSKAYA, A.I., red. izd-va; LEYKINA, T.L., red. izd-va; KUREPINA, G.N., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Machine tools; album of general design; kinematic diagrams and units] Metallorezhushchie stanki; al'bom obshchikh vidov, kinematicheskikh skhem i uzlov. Pod obshchei red. A.M. Kuchera. Moskva, Mashgiz, 1963. 282 p. (MIRA 16:7)
(Machine tools—Design and construction)

KUCHER, A.M., kand.tekhn.nauk; BYCHKOV, P.P.

Machining refined cast iron with instruments made of new materials. Trudy LTITSBP no.8:182-185 '61. (MIRA 16:9)
(Cast iron) (Metalworking machinery)

KARMAZIN, V.I.; GUBIN, G.V.; KUCHER, A.M.

Testing four-zone furnaces with a fluidized bed for the magnetization roasting of iron ores. Stal' 23 no.6:494-496 Je '63. (MIRA 16:10)

1. Mekhanobrchermet.

KROPIVNITSKIY, N.N.; KUCHER, A.M., kand. tekhn. nauk;
PUGACHEVA, R.V.; SHORNIKOV, P.N.; BYCHKOV, P.P., kand.
tekhn. nauk, retsenzent; MALYSHEV, N.A., inzh., retsenzent

[Technology of metals] Tekhnologiia metallov. [By] N.N.
Kropivnitskii i dr. Izd.2., perer. i dop. Moskva, Izd-vo
"Mashinostroenie," 1964. 502 p. (MIRA 17:8)

GASIUK, I.P.; KUCHER, A.M., kand. tekhn. nauk, retsenzent;
BRODOTSKIY, A.I., kand. tekhn. nauk, red.

[Technology of the manufacture of heavy papermaking machinery] Tekhnologiia tiazhelogo bumagodelatel'nogo mashinostroeniia. Moskva, Mashinostroenie, 1965. 218 p.
(MIRA 18:4)

KUCHER, A.M.

Finishing of calender rolls made from refined cast iron. Trudy LTITSBP no.14:5-14 '64. (MIRA 18:5)

KOVALEV, N.M.; PERELOMOV, N.G.; KUCHER, A.M., kand. tekhn.
nauk, dots., retsenzent; ZHURAVLEV, S.A., kand. tekhn.
nauk, red.

[Milling machines] Frezernye stanki. Moskva, Mashinostroenie, 1964. 107 p. (Bibliotechka frezerovshchika, no.3) (MIRA 18:8)

Kucher, A.M.

PA - 2720

AUTHOR DAVIDENKO, V.A., KUCHER, A.M.,

TITLE The Determination of the Intensity of the Neutron Sources from the Activity Caused by Neutrons in a Solution of Manganic Acid Potassium. (Opredeleniye intensivnosti neytronnykh istochnikov po aktivnosti, navodimoy neytronami v rastvore margantsovokislogo kaliya - Russian)

PERIODICAL Atomnaia Energiia, 1957, Vol 2, Nr 4, pp 334-336, (U.S.S.R.)

Received 5/1957 Reviewed 6/1957

ABSTRACT Among the methods for the calibration of neutron sources, the most simple is the method of the physical integration of neutrons in a large container with a solution containing hydrogen and any indicator for thermal neutrons. A 2°/o aqueous solution of manganic acid potassium is best used. If the oH value of the solution is kept within the limits of from 0 to 4, the main part of the active Mn^{56} is segregated in form of manganese-dioxide and only a small part of the manganese remains in the solution, apparently in the form MnO_4. The manganese dioxide is separated from the remaining solution in the used way my means of filtering paper. The neutrons emitted by the source are slowed down by the source and are absorbed mainly by hydrogen and manganese. Calibration measurements of the neutron sources Nr 22 and Nr26, which contain a homogeneous mixture of radium bromide and beryllium powder, were carried out in an aluminum container having a diameter of 66cm and a height of 70cm. The $KMnO_4$ solution had a concentration of 2,12 ± 0,01 °/o and a volume of 233 ± 1 l. After each irradiation the solution was mixed thoroughly and carefully and 3 samples of 1 liter each were taken. Each silution

Card 1/2

The Determination of the Intensity of the PA - 272o
of the Neutron Sources from the Activity Caused by Neutrons in a
Solution of Manganic Acid Potassium.

was passed through filter paper twice. The filter then was dried, saturated by a weak solution of plexiglass in dichlore ethane,and its activity was measured by means of a device "B" with a counter AS-2. The portion of active manganese having passed through the filter was determined by means of a speciel test. A formula is given for the computation of the intensity of the sourc3. Results obtained by means of this methed are given in this paper
In conclusion the determination of the ratio of the absorption cross section of the manganese with the absorbtion cross section of hydrogen for thermal neutrons is discussed.
(2 Tables)

ASSOCIATION	
PRESENTED BY	
SUBMITTED	22.1o.1956
AVAILABLE	Library of Congress
Card 2/2	

KUCHER, A.M.

89-10-12/36

AUTHORS	Dorofeyev, G.A., Kutikov, I.Ye., Kucher, A.M.
TITLE	Comparison between USSR and Swedish Neutron Standards. (Sravneniye standartnykh neytronnykh istochnikov SSSR i Shvetsii.)
PERIODICAL	Atomnaya Energiya, 1957, Vol. 3, Nr 10, pp.328-330 (USSR)
ABSTRACT	The Russian neutron standard source H_{26} was measured in 1952 at $(4.70 \pm 0,30) \cdot 10^5$n/sec, and the source H_{22} was measured in 1951 at $(5.96 \pm 0,17) \cdot 10^5$n/sec. The Swedish neutron standar source Q_1 was measured 1952-1954 by Larson at $(2,65 \pm 0,05) \cdot 10^6$n/sec. On the occasion of Larson's visit to Moscow the three sources were compared among one another and $Q_1/Q_{H22} = 0,439 \pm 0,5$ % and $Q_{H26}/Q_{H22} = 0,082 \pm 0,5$ % was measured. If, in addition the time factor is taken into account, the three sources have (for 1957) the value:

CARD 1/2

89-10-12/36

Comparison between Ussr and Swedish Neutron Standards.

$$Q_{H26} = 6{,}07 \cdot 10^6 n/sec$$

$$Q_{H22} = 4{,}82 \cdot 10^5 n/sec$$

$$Q_1 = (2{,}86 \pm 0{,}06) \cdot 10^6 n/sec.$$

There are 2 tables, 1 figure and 6 Slavic references.

ASSOCIATION: None given.
SUBMITTED: 20.5. 1957.
AVAILABLE: Library of Congress.

CARD 2/2

Кучер А.

DAVIDENKO, V.A.; KUCHER, A.M.; POGREBOV, I.S.; TUTUROV, Yu.F.

Determination of the total cross section of the $D(d,n)He^3$ reaction in the 20-220 Kev energy range. Atom. energ. suppl. no.5:7-14 '57.
(Nuclear reactions) (MIRA 11:2)

KUCHER, A. S., inzh. (st. Kovrov, Gor'kovskoy dorogi)

Relieving stresses due to temperature in a track with continuous rails. Put' i put. khoz. 6 no.8:9-11 '62.
(MIRA 15:10)

(Railroads—Maintenance and repair)

KUCHER, Aleksandr Yemel'yanovich [Kucher, O.O.]; ASTAKHOV, V.I., dotsent, kand.istoricheskikh nauk, otv.red.; PROKOPENKO, M.I., red.; TROKHIMENKO, A.S., tekhred.

[Struggle of Ukrainian workers for the reconstruction of heavy industry after the civil war] Borot'ba robitnykiv Ukrainy za vidbudovu vazhkoi promyslovosti pislia hromadians'koi viiny. Kharkiv, Vyd-vo Kharkivs'koho derzh.univ. im. O.M.Hor'koho, 162 p. (MIRA 13:6)

(Ukraine--Industries)

KUCHER, D., kapitan.

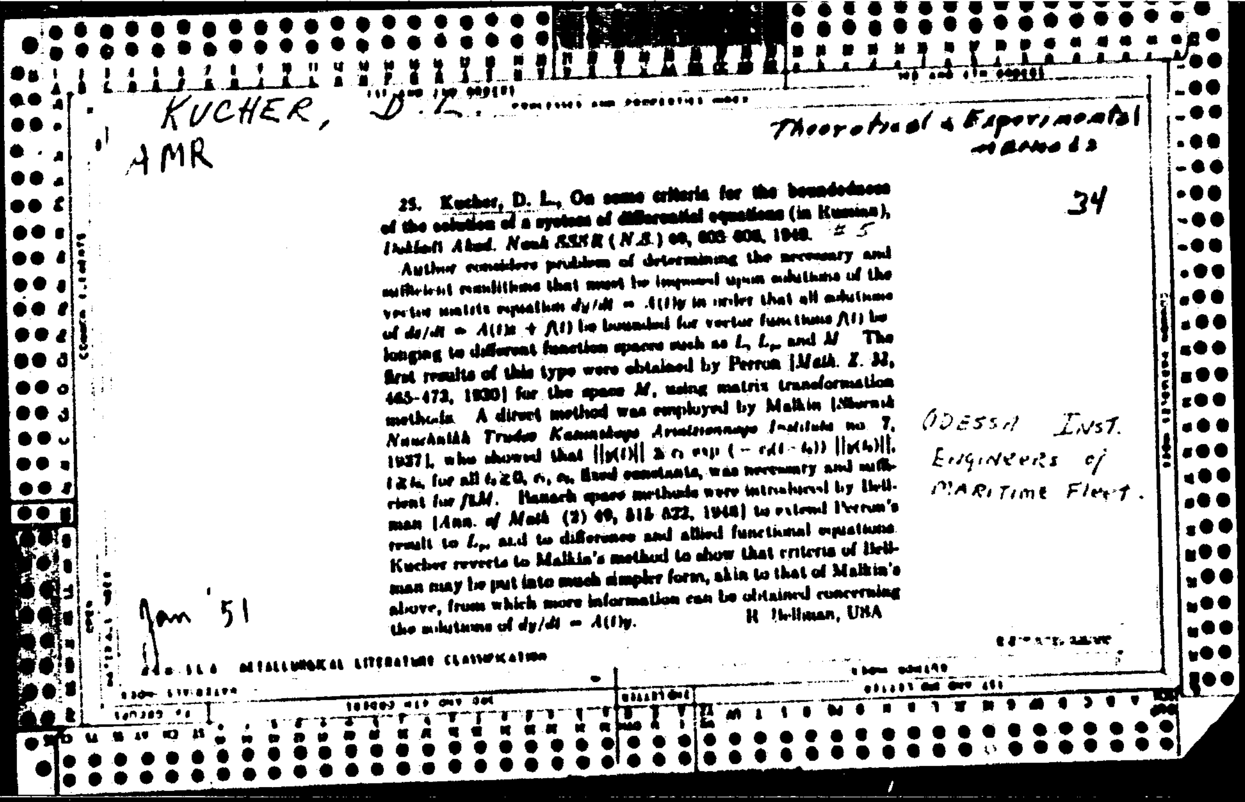
Lighter weight portable scaffolding for pile driving. Voen-inzh. zhur. 101 no.9:39-40 S '57. (MLRA 10:9)

(Piling (Civil engineering))

KUCHER, D.A., inzh.; KANEVSKIY, L.S., inzh.

Storage batteries. Vest. elektroprom. 31 no.11:75-76 N '60.
(MIRA 13:12)

(Storage batteries)



KUCHER, D.L.

AMR

Theoretical & Experimental Methods

34

25. Kucher, D. L., On some criteria for the boundedness of the solution of a system of differential equations (in Russian), *Doklady Akad. Nauk SSSR (N.S.)* 69, 603-606, 1949. # 5

Author considers problem of determining the necessary and sufficient conditions that must be imposed upon solutions of the vector matrix equation $dy/dt = A(t)y$ in order that all solutions of $dx/dt = A(t)x + f(t)$ be bounded for vector functions $f(t)$ belonging to different function spaces such as L, L_p, and M. The first results of this type were obtained by Perron [*Math. Z.* 32, 465-472, 1930] for the space M, using matrix transformation methods. A direct method was employed by Malkin [*Sbornik Nauchnikh Trudov Kazanskogo Aviatsionnogo Instituta* no. 7, 1937], who showed that $\|y(t)\| \leq c_1 \exp(-c_2(t-t_0)) \|y(t_0)\|$, $t \geq t_0$, for all $t_0 \geq 0$, c_1, c_2 fixed constants, was necessary and sufficient for $f \in M$. Banach space methods were introduced by Bellman [*Ann. of Math.* (2) 49, 515-522, 1948] to extend Perron's result to L_p, and to difference and allied functional equations. Kucher reverts to Malkin's method to show that criteria of Bellman may be put into much simpler form, akin to that of Malkin's above, from which more information can be obtained concerning the solutions of $dy/dt = A(t)y$.

R. Bellman, USA

ODESSA INST. ENGINEERS of MARITIME FLEET.

Jan '51

METALLURGICAL LITERATURE CLASSIFICATION

KUCHER, A.S., inzh.

Giving up the practice of stress relieving. Put' i put.khoz.
8 no.3:20-22 '64. (MIRA 17:3)

1. Vladimirskaya distantsiya Gor'kovskoy dorogi

KUCHER, [illegible].R., kandidat tekhnicheskikh nauk.

Principles of the method of calculating magnetic noise of three-phase squirrel-cage motors. Vest.elektroprom. 27 no.12:44-48 D '56.
(MLRA 10:1)

1. Nauchno-issledobatel'skiy institut Ministerstva elektropromyshlennosti. (Electric motors, Induction)

KUCHER, E.R.

Elya Call Nr: AF 1154201

AUTHORS: Voronetskiy, B. B., Kucher, E. Ruvimovna

TITLE: Magnetic Noise of Three-Phase Squirrel-Cage Induction Motors (Magnitnyy shum trekhfaznykh asinkhronnykh korotkozamknutykh elektrodvigateley)

PUB.DATA: Gosudarstvennoye energeticheskoye izdatel'stvo, Moscow-Leningrad, 1957, 56 pp, 8,500 copies

ORIG.AGENCY: None given.

EDITORS: Astakhov, N. V.; Tech.Ed.: Fridkin, A. M.

PURPOSE: The book is intended for engineer designers at electrical engineering plants, and also as a textbook for students of power engineering institutes.

Card 1/4

Call Nr: AF 1154201

Magnetic Noise of Three-Phase Squirrel-Cage Induction Motors (Cont.)

COVERAGE: The book deals with the method of calculating the parameters on which depends the magnetic noise of three-phase squirrel-cage induction motors, and with the methods of investigating the magnetic noise of a.c. motors. The Scientific Research Institute of the Ministry of Electrical Industry conducted a series of investigations of magnetic noise on an experimental basis. Squirrel-cage induction motors of an All-Union nationwide series were tested. On the basis of investigations of electromagnetic, mechanical and acoustical properties of these motors, formulae were derived for the calculation of parameters on which the magnetic noise depends. Experimental factors were obtained making possible calculations of the intensity of noise in these motors. Some of the formulae were suggested in 1950 by Sinel'nikov, Ye.M., Doctor of Technical Sciences, Prof., (p.13). Works of Urusov, N.D., (p.18) and Timoshenko, S.P., (p.19) are mentioned and the AO31-2 type motor characteristic is presented (p.37). There are 29 references, 18 of which are USSR, 11 French, German, and English, and translations into Russian.

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Call Nr: AF 1154201

Magnetic Noise of Three-Phase Squirrel-Cage Induction Motors (Cont.)

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2. Disturbing magnetic forces in the airgap of a three-phase squirrel-cage induction motor 6

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4. Resilient properties of the stator 22

5. Deformation of the stator under the impact of magnetic forces 28

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Call Nr: AF 1154201

Magnetic Noise of Three-Phase Squirrel-Cage Induction Motors (Cont.)

6. Acoustic properties of three-phase squirrel-cage induction motors 45

7. Example of computation of magnetic noise of the A052-6-type electric motor 51

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AVAILABLE: Library of Congress

Card 4/4

110-9-6/23

AUTHOR: Kucher, E.R., Candidate of Technical Sciences.

TITLE: An Experimental Investigation of Magnetic Noise in Induction Motors Series AO (Eksperimental'noye issledovaniye magnitnogo shuma asinkhronnykh dvigateley serii AO)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.9, pp. 22 - 24 (USSR).

ABSTRACT: Sound vibrations of the stator iron and the parts of the motor-frame that are rigidly connected to it arise from interaction of higher harmonic fields in the air gap of the motor. The intensities of vibration increase the nearer the frequencies of the magnetic forces are to the natural frequencies of the stator, end-plates and other parts. Hence, it is important to make experimental determinations of these respective frequencies. Magnetic noise audible at a considerable distance from the motor usually consists of frequencies in the region of greatest aural sensitivity (700 - 7 000 c/s). To reduce magnetic noise, it must first be accurately separated from the general noise of the motor. An experimental procedure for investigating the magnetic noise of motors has been developed in the NIIEP Institute, using experimental squirrel-cage motors of the standard series ranging in output from 0.6 to 100 kW. The basis is to determine, at rated load, the fundamental frequency of magnetic noise and to

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110-9-6/23

An Experimental Investigation of Magnetic Noise in Induction Motors Series AO.

evaluate the intensity level that it sets up. Measurements may be made either in a sound-absorbent chamber or in a large room in which the ambient noise is 6 - 8 db lower than the noise-level of the motor under test. Noise-level measurements are made at a number of points located at a distance of 1 m from the motor. By using quiet bearings, removing the fan, and installing sound-insulation around the generator which loads the motor, its sound-level is kept 15 d.b. below that of the motor. Sound-vibrations are measured by a piezo-transmitter on the surface of the stator iron, and transmitted to a harmonic analyser. The main frequency of vibration due to magnetic forces is determined by switching-off the motor so that the stator vibrations due to magnetic forces temporarily disappear. It is then easy to determine that part of the original vibration which is due to magnetic causes alone. It was shown that the amplitude of sound-vibrations increased with the load on the motor. An experimental curve of the intensity of magnetic noise as a function of load for a motor type AO-42-4 is shown in Fig.2 Table 1 gives results of magnetic noise measurements as a function of load for three frame sizes of motor. The analysis

Card 2/3 showed that the intensity level of magnetic noise is much lower

110-9-6/23

An Experimental Investigation of Magnetic Noise in Induction Motors Series AO.

than that of other sources of noise such as the fan and anti-friction bearings. Results of noise measurements on motors at rated load and of the general noise level when the fan is removed are given in Table 2. In motors running at 1 500 r.p.m. the fan noise is less than the bearing noise but at 3 000 r.p.m. it is much greater.

There are 2 figures and 2 tables.

ASSOCIATION: NII EP

SUBMITTED: February 4, 1957.

AVAILABLE: Library of Congress.

Card 3/3

KUCHER, E.R., kand.tekhn.nauk

Magnetic noise in d.c. electric machinery. Vest. elektroprom. 32 no.9:38-41 S '61. (MIRA 14:8)

(Electric machinery--Noise)

1. KUCHER, F.

2. USSR (600)

4. Agricultural Machinery

7. How machinery is housed at the Zvenigorod Machine-Tractor Station. MTS 12 no. 10: 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

KIRICHOK, Yu.G.; KLISHKO, B.K.; KUCHER, G.A.; KHAYKIN, M.I.;
KOVACH, I.A.; DANILEYKO, K.Ya.

Redesigning a skip hoist of the "Bol'shovik" Mine. Gor. zhur. no.10:68-72 O '61. (MIRA 15:2)

1. Energolaboratoriya tresta Dzerzhinskruda (for Kirichok, Klishko, Kucher, Khaykin). 2. Institut Krivbassproyekt (for Kovach, Danileyko).
(Krivoy Rog Basin--Mine hoisting)

KUCHER, G.N.; MILLER, L.Ye., red.; KOVALEV, N.P., red.;
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PURPOSE: This book is intended as a manual for engineers engaged in the field of designing special-purpose automatics and semiautomatics. It can also be used by process engineers, students, and skilled workers.

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Design of Special-Purpose Automatic and Semiautomatic (Cont.)

COVERAGE: The book reviews the basic types of special-purpose automatic and semiautomatic machine tools and the most efficient ways of utilizing them. The basic elements of the mechanisms and control systems are extensively analyzed, and fundamentals of their design and design calculations are discussed. A number of machine-tool designs introduced in Soviet industry are described and illustrated. The author points out that despite the considerable achievements of the Experimental Scientific Research Institute of Metal-Cutting Machines (ЭНИМС) and the plants of the Ministry of Machine-Tool Construction in the design of special-purpose automatic and semiautomatic machines, many plants must themselves design and manufacture special-purpose machines for their own specific needs. The literature currently available on this subject deals exclusively with general-purpose automatic machine tools, and the designer often cannot benefit from the experience gained in the design of automatics. The book represents the first attempt to fill this gap and to present a handy design manual for designers of special-purpose automatics. There are 18 references, all USSR.

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Design of Special-Purpose Automatic and Semiautomatic (Cont.)

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